

**U.S. Department of Agriculture, Agricultural Research Service
Systematic Mycology and Microbiology Laboratory - Nomenclature Fact Sheets**

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Phoma crystalliniformis (Loer. et al.) Noordel. & Gruyter

Nomenclature:

Phoma andina var. *crystalliniformis* Loer. et al. (1986) is the basionym. This fungus was considered by Loerakker et al. (1986) to be a distinct species from *Phoma andigena* (see [nomenclature fact sheet](#)) because it is found on tomato in addition to potato, grows more quickly on agar, and forms white crystals precipitating in the medium as long dichotomous branching strands.

Distribution:

This species is found in the Andes of South America (including Colombia) between 1500 and 3700 m.

Nomenclature Report:

Stagonosporopsis crystalliniformis (Loer., R. Navarro, M. Lôbo & Turkenst.) Aveskamp, Gruyter & Verkley 2010 (Ascomycetes, Incertae sedis)

≡ *Phoma andina* var. *crystalliniformis* Loer., R. Navarro, M. Lôbo & Turkenst. 1986

≡*Phoma crystalliniformis* (Loer., R. Navarro, M. Lôbo & Turkenst.) Noordel. & Gruyter 1993

Distribution: South America (Andes between 1500 and 3700 m; Colombia, Venezuela).

Substrate: Leaves, stems, fruits.

Disease Note: Necrotic stem and leaf spots, followed by total plant necrosis and mummification of fruits. 'Carate'.

Host: *Lycopersicon esculentum* and *Solanum* spp. series *Tuberosa* (Solanaceae).

Supporting Literature:

Aveskamp, M. , de Gruyter, H., Woudenberg, J. , Verkley, G., and Crous, P.W. 2010. Highlights of the Didymellaceae: A polyphasic approach to characterise *Phoma* and related pleosporalean genera. Stud. Mycol. 65: 1-64.

Boerema, G.H., De Gruyter, J., Noordeloos, M.E., and Hamers, M.E.C. 2004. *Phoma* identification manual: differentiation of specific and infra-specific taxa in culture. CABI Publishing, 470 pages.

Loerakker, W.M., Navarro, R., Lobo, M., and Turkensteen, L.J. 1986. *Phoma andina* var. *crystalliniformis* var. nov., un patogeno nuevo del tomate y de la papa en los Andes. Fitopatología 21: 99-102.

Noordeloos, M.E., De Gruyter, J., Van Eijk, G.W., and Roeijmans, H.J. 1993. Production of dendritic crystals in pure cultures of *Phoma* and *Ascochyta* and its value as a taxonomic character relative to morphology, pathology and cultural characteristics. Mycol. Res. 97: 1343-1350.

Verified By: Drew On Jan 21, 2011

Written by Erica Cline, December 2005